

REMEDIAL SITE ASSESSMENT DECISION - EPA NEW ENGLAND

Site Name: H & A Kaufman Realty Company EPA ID#: RID987479078

Address: Powder Hill Drive City: Lincoln State: RI

Refer to Report Dated: February 19, 1997 Report type: Mini-SI

Report developed by: Weston START

DECISION:

☒ 1. Further Remedial Site Assessment under CERCLA (Superfund) is not required because:

☒ 1a. Site does not qualify for further remedial
site assessment under CERCLA
(No Further Remedial Action Planned - NFRAP)

☐ 1b. Site may qualify for further
action, but is deferred to: ☐ RCRA
☐ NRC

☐ 2. Further Assessment Needed Under CERCLA:

2a. (optional) Priority: ☐ Higher ☐ Lower

2b. Activity ☐ PA ☐ ESI
Type: ☐ SI ☐ HRS evaluation

☐ Other: _____

DISCUSSION/RATIONALE:

Low HRS score.

Report Reviewed
and Approved by:

Sharon M. Hayes

Signature: 

Date: 02/28/97

Site Decision
Made by:

Sharon M. Hayes

Signature: 

Date: 02/28/97

EPA Form # 9100-3



SEMS DocID 640598

REVISED MINI-SITE INSPECTION DATA SUMMARY
FOR
H & A KAUFMAN REALTY CO. (LOT 62)
LINCOLN, RHODE ISLAND

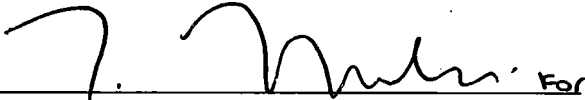
CERCLIS No. RID987479078
TDD No. 95-10-0002A

Prepared by:

Roy F. Weston, Inc. (WESTON®)
Superfund Technical Assessment and Response Team (START)
217 Middlesex Turnpike
Burlington, MA 01803


17 April 1997

Region I START
Reviewed and Approved:



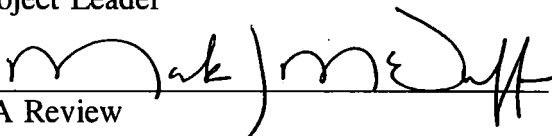
Jack Padden
Site Leader

4/17/97
Date



Joseph Schmidl
Project Leader

4/17/97
Date



QA Review

4/21/97
Date

Work Order No. 11098-011-001-1954-70

DISCLAIMER

This report was prepared solely for the use and benefit of the U.S. Environmental Protection Agency (EPA-New England), Office of Site Remediation and Restoration for the specific purposes set forth in the contract between the EPA-New England and the Roy F. Weston, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START). Professional services performed and reports generated by START have been prepared for EPA-New England purposes as described in the START contract. The information, statements, and conclusions contained in the report were prepared in accordance with the statement of work, and contract terms and conditions. The report may be subject to differing interpretations or misinterpretation by third parties who did not participate in the planning, research or consultation processes. Any use of this document or the information contained herein by persons or entities other than the EPA-New England shall be at the sole risk and liability of said person or entity. START, therefore, expressly disclaims any liability to persons other than the EPA-New England who may use or rely upon this report in any way or for any purpose.

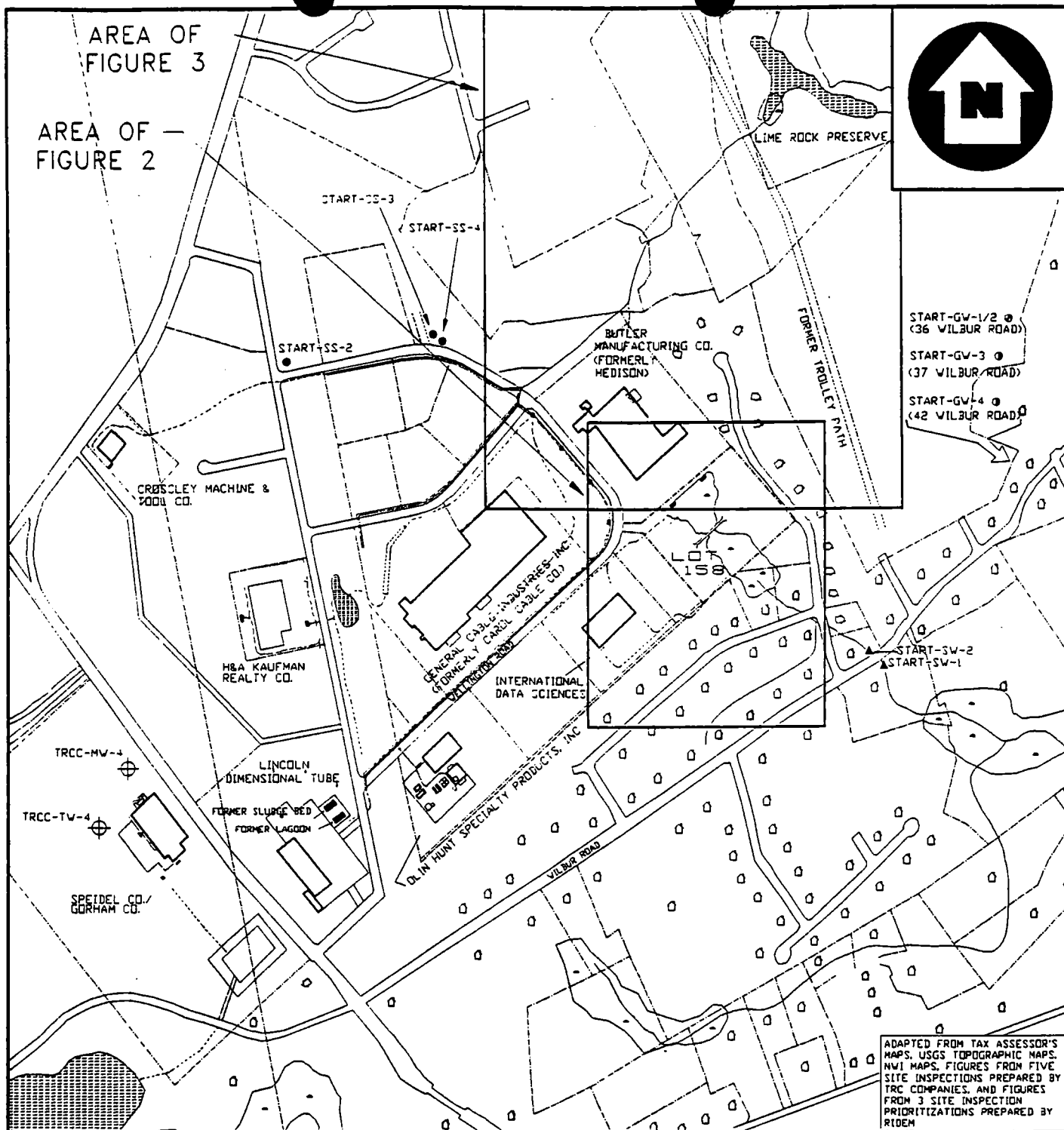
**Revised Mini-Site Inspection Data Summary
H & A Kaufman Realty Co. (Lot 62)
Lincoln, Rhode Island**

**CERCLIS No. RID987479078
TDD No. 95-10-0002A
Work Order No. 11098-011-001-1254-70**

The Roy F. Weston, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) conducted environmental sampling on 18 June 1996 for the nine North Central Industrial Park Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) sites in Lincoln, Rhode Island, as part of a Mini-Site Inspection (Mini-SI). The samples collected by START personnel were summarized in a Trip Report submitted to EPA-New England on 9 July 1996. Analytical results for the surface water, drinking water, soil, and sediment samples collected during this sampling event have been reviewed by START personnel using EPA-New England criteria. Figures 1, 2, and 3 depict START sample locations.

The following tables summarize the organic compounds and inorganic elements detected through Contract Laboratory Program (CLP) analyses of START environmental samples. For each sample location, a compound or element is listed if it is detected at three times or greater than the matrix reference sample concentration. However, if the compound or element is not detected in the reference sample, the reference sample's quantitation limit (SQL) (for organic analyses) or sample detection limit (SDL) (for inorganic analyses) is used as the reference value. These compounds or elements are listed if they occurred at a value equal to or greater than the reference sample's SQL or SDL and are designated by their approximate relative concentration above these values.

A complete summary of sample locations and analytical results of START environmental samples including quantitation and detection limits is presented in Attachment A. Sample results quantified with a "J" on analytical tables are considered approximate because of limitations identified during CLP data validation. In addition, organic sample results reported at concentrations below quantitation limits and confirmed by mass spectrometry are also qualified by a "J" and considered approximate.



SITE SKETCH

NORTH CENTRAL INDUSTRIAL PARK

LINCOLN, RHODE ISLAND

WESTON
MANAGERS DESIGNERS/CONSULTANTS

REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

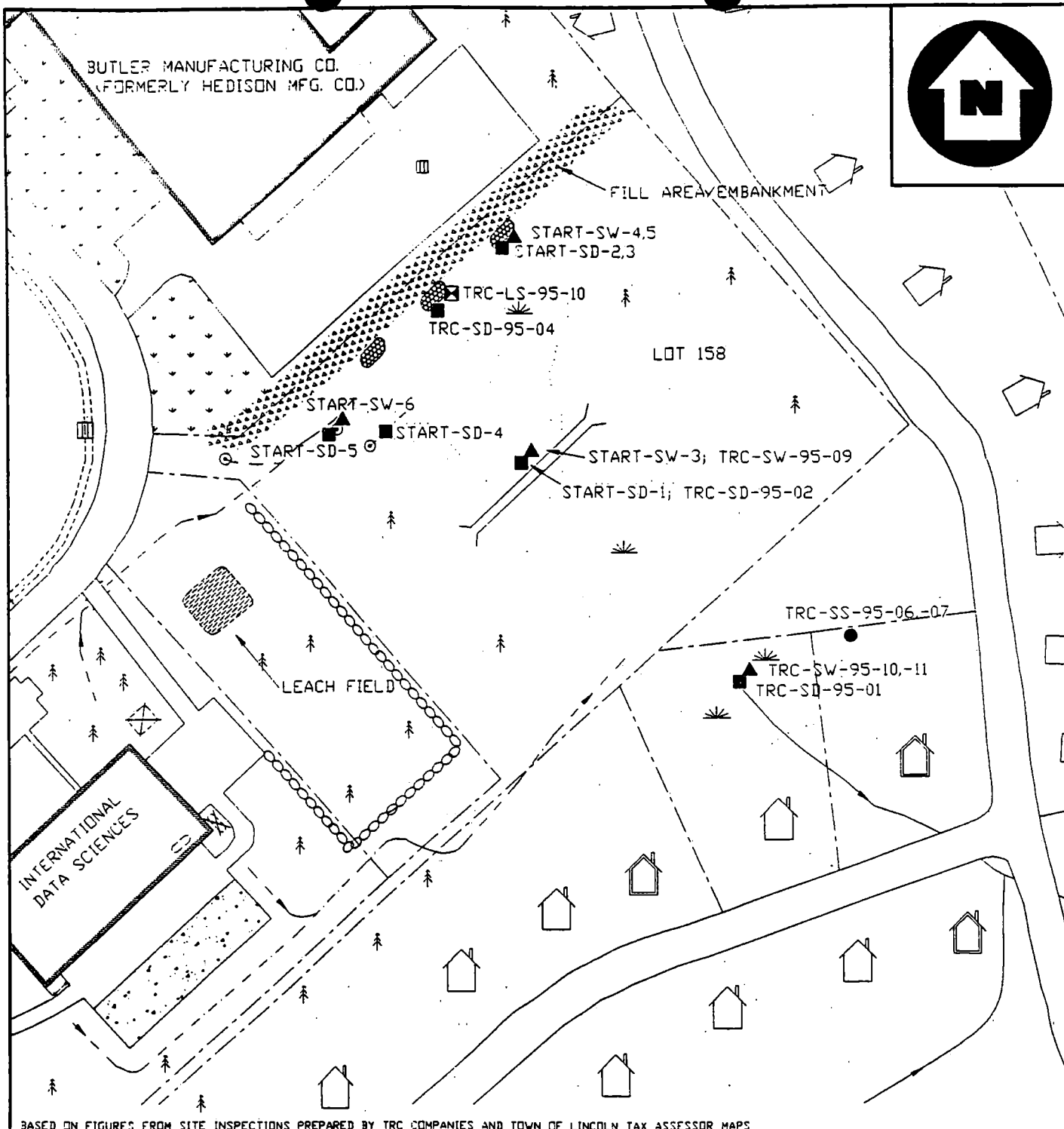
TDD NO.
95-10-0002

DRAWN BY:
B. CARTER

DATE
5/23/96

FILE NAME:
NCIP_FIG5.DWG

FIGURE 1



BASED ON FIGURES FROM SITE INSPECTIONS PREPARED BY TRC COMPANIES AND TOWN OF LINCOLN TAX ASSESSOR MAPS

▲ SURFACE WATER SAMPLE	■ SEDIMENT SAMPLE	● SOIL SAMPLE	⊙ SPRING
🏠 RESIDENCE WITH PUBLIC WATER SUPPLY	- - - - - INTERMITTENT STREAM	☒ LEACHATE SAMPLE	🌀 LEACHATE DEEP/SPRING
🏠 RESIDENCE/ POSSIBLE PRIVATE WELL	- - - - - PROPERTY BOUNDARY	🌿 WETLAND	

LEGEND

SAMPLE LOCATION MAP A
 NORTH CENTRAL INDUSTRIAL PARK
 LOT 158 AND SURROUNDING AREA
 LINCOLN, RHODE ISLAND



REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

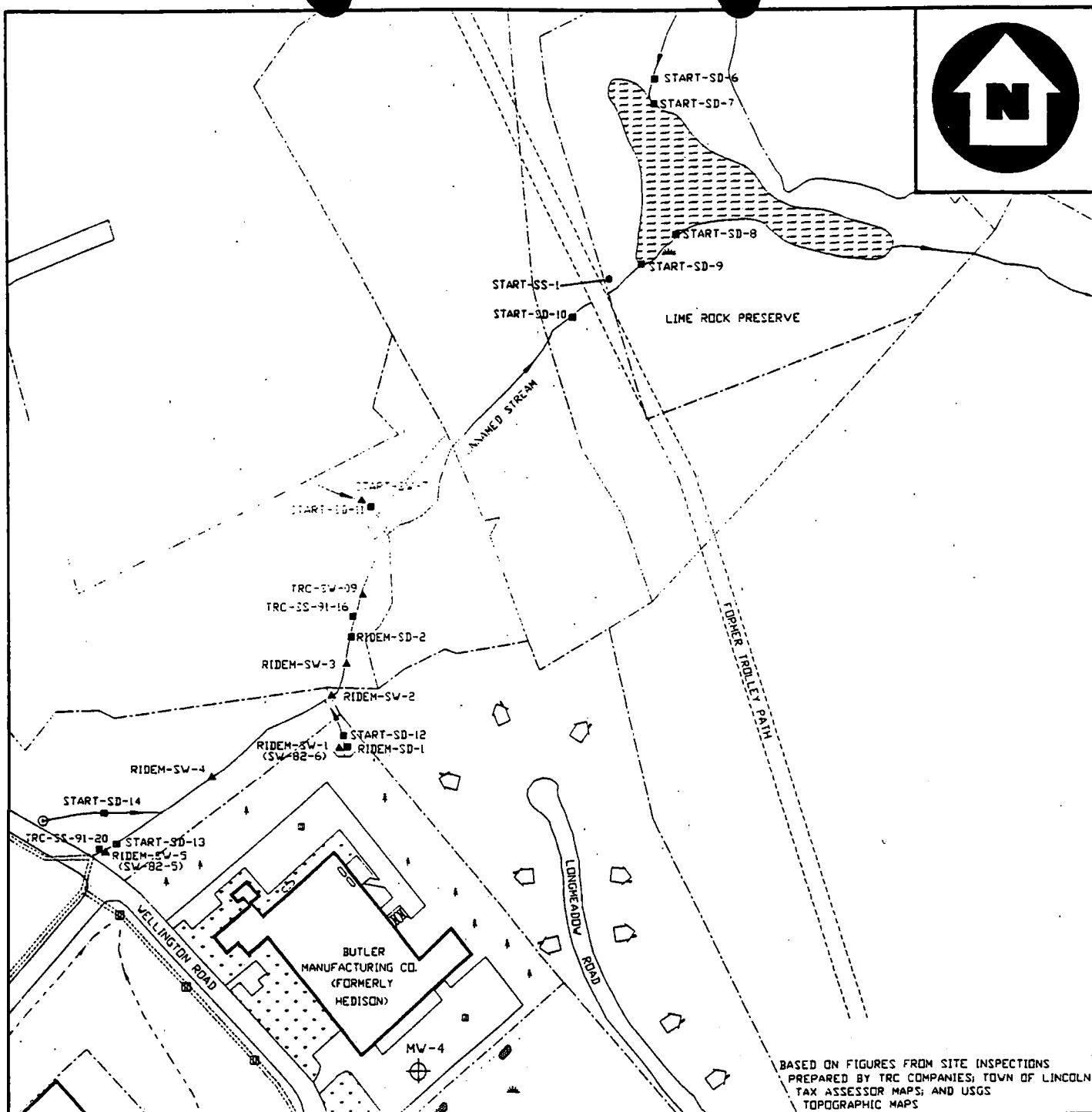
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DATE
5/23/96

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NCIP_FIG3.DWG

FIGURE 2



BASED ON FIGURES FROM SITE INSPECTIONS
PREPARED BY TRC COMPANIES; TOWN OF LINCOLN
TAX ASSESSOR MAPS; AND USGS
TOPOGRAPHIC MAPS

⊙ SPRING

🏠 RESIDENCE

🌿 WETLAND

LEGEND

--- PROPERTY BOUNDARY

=== STORM SEWER

--- INTERMITTENT STREAM

--- FORMER TROLLEY PATH

⊕ MONITORING WELL (OVERBURDEN)

● SOIL SAMPLE

■ SEDIMENT SAMPLE

▲ SURFACE WATER SAMPLE

SAMPLE LOCATION MAP B

NORTH CENTRAL INDUSTRIAL PARK
LIME ROCK PRESERVE PATHWAY
LINCOLN, RHODE ISLAND

WESTON
MANAGERS DESIGNERS/CONSULTANTS

REGION I SUPERFUND TECHNICAL ASSESSMENT AND RESPONSE TEAM

TDD NO.
95-10-0002

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DATE
5/23/96

FILE NAME:
NCIP_FIG4.DWG

FIGURE 3

START collected samples from five areas which include (1) Lot 158; (2) the stream that drains Lot 158, (3) the unnamed stream, its tributaries, and Lime Rock Preserve; (4) drinking water wells along Wilbur Road; and (5) background soil locations within the industrial park. All of these samples are potentially relevant to the H & A Kaufman Realty Co. property.

Four surface water samples (SW-3, SW-4, SW-5, and SW-6) were collected on Lot 158. Sample SW-7 is the reference sample. SW-7 was collected from a tributary to the unnamed stream that flows to the pond within Lime Rock Preserve. No volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), or pesticides/polychlorinated biphenyls (Pest/PCBs) were detected in samples SW-3 through SW-5. The inorganic results are summarized in Table 1.

Table 1
Summary of Analytical Results
Lot 158 Surface Water Sample Analysis
North Central Industrial Park

Sample Location	Compound/Element	Sample Concentration	Reference Concentration ¹	Comments
SW-03 (AMC69) (MAHZ88)	INORGANICS			
	Cobalt	58.8 $\mu\text{g/L}$	1.0 J $\mu\text{g/L}$	58.8 \times Ref
	Cyanide	17.9 $\mu\text{g/L}$	1.6 $\mu\text{g/L}$	11.2 \times Ref
	Iron	69,400 J $\mu\text{g/L}$	3,970 J $\mu\text{g/L}$	17.5 \times Ref
	Manganese	8,260 $\mu\text{g/L}$	1,440 $\mu\text{g/L}$	5.7 \times Ref
	Nickel	38.0 $\mu\text{g/L}$	4.8 $\mu\text{g/L}$	7.9 \times Ref
	Selenium	1.6 J $\mu\text{g/L}$	1.4 U $\mu\text{g/L}$	1.1 \times SDL
	Silver	0.79 J $\mu\text{g/L}$	0.6 U $\mu\text{g/L}$	1.3 \times SDL
SW-04 ² (AMC70) (MAHZ89)	INORGANICS			
	Antimony	5.1 $\mu\text{g/L}$	2.3 U $\mu\text{g/L}$	2.2 \times SDL
	Arsenic	51.5 J $\mu\text{g/L}$	1.8 UJ $\mu\text{g/L}$	28.6 \times SDL
	Barium	487 $\mu\text{g/L}$	103 $\mu\text{g/L}$	4.7 \times Ref
	Cobalt	61.8 $\mu\text{g/L}$	1.0 U $\mu\text{g/L}$	61.8 \times SDL
	Iron	79,600 ² J $\mu\text{g/L}$	3,970 J $\mu\text{g/L}$	20.1 \times Ref
	Manganese	5,470 $\mu\text{g/L}$	1,440 $\mu\text{g/L}$	3.8 \times Ref
	Nickel	61.8 $\mu\text{g/L}$	4.8 $\mu\text{g/L}$	12.9 \times Ref
	Selenium	12.8 $\mu\text{g/L}$	1.4 U $\mu\text{g/L}$	9.1 \times SDL
	Silver	0.64 J $\mu\text{g/L}$	0.6 U $\mu\text{g/L}$	1.1 \times SDL
	Vanadium	28.1 $\mu\text{g/L}$	2.5 $\mu\text{g/L}$	11.2 \times Ref
	Zinc	135 J $\mu\text{g/L}$	23.3 UJ $\mu\text{g/L}$	5.8 \times SDL

Table 1
Summary of Analytical Results
Lot 158 Surface Water Sample Analysis
North Central Industrial Park
(Concluded)

Sample Location	Compound/Element	Sample Concentration	Reference Concentration ¹	Comments
SW-05 ² (AMC71) (MAHZ90)	INORGANICS			
	Arsenic	17.4 $\mu\text{g/L}$	1.8 UJ $\mu\text{g/L}$	9.7 \times SDL
	Cobalt	41.0 $\mu\text{g/L}$	1.0 U $\mu\text{g/L}$	41 \times SDL
	Iron	264,000 ² J $\mu\text{g/L}$	3,970 J $\mu\text{g/L}$	66.5 \times Ref
	Manganese	4,700 $\mu\text{g/L}$	1,440 $\mu\text{g/L}$	3.3 \times Ref
	Nickel	34.4 $\mu\text{g/L}$	4.8 $\mu\text{g/L}$	7.2 \times Ref
	Selenium	3.0 $\mu\text{g/L}$	1.4 U $\mu\text{g/L}$	2.1 \times SDL
	Silver	0.70 J $\mu\text{g/L}$	0.6 U $\mu\text{g/L}$	1.2 \times SDL
SW-06 (AMC72) (MAHZ91)	INORGANICS			
	Arsenic	2.6 J $\mu\text{g/L}$	1.8 UJ $\mu\text{g/L}$	1.4 \times SDL
	Cobalt	107 $\mu\text{g/L}$	1.0 U $\mu\text{g/L}$	107 \times SDL
	Cyanide	12.5 $\mu\text{g/L}$	1.6 $\mu\text{g/L}$	7.8 \times Ref
	Iron	21,100 J $\mu\text{g/L}$	3,970 J $\mu\text{g/L}$	5.3 \times Ref
	Lead	21.3 $\mu\text{g/L}$	1.3 UJ $\mu\text{g/L}$	16.4 \times SDL
	Mercury	3.7 $\mu\text{g/L}$	0.1 U $\mu\text{g/L}$	37 \times SDL
	Nickel	60.2 $\mu\text{g/L}$	4.8 $\mu\text{g/L}$	12.5 \times Ref
	Vanadium	18.5 $\mu\text{g/L}$	2.5 $\mu\text{g/L}$	7.4 \times Ref
	Zinc	282 J $\mu\text{g/L}$	23.3 UJ $\mu\text{g/L}$	12.1 \times SDL

Note: The above table lists compounds detected significantly above a reference value but does not separate the influence of the IDS properties and the Hedison property.

1 = Samples SD-06 and SD-07 are the reference samples.

2 = Samples SW-4 and SW-5 are duplicates. The significant difference in the results of the two samples is likely because of variations in the high sediment load present in the water collected.

Ref = Reference value.

J = Quantitation is approximate due to limitations identified during the quality control review.

U = Indicates the sample was analyzed but not detected and reports the detection value.

$\mu\text{g/L}$ = Micrograms per liter.

SDL = Sample Detection Limit.

Five sediment samples (SD-1 through SD-5) were collected on Lot 158. Sample SD-6 and SD-11 were chosen as reference samples collected from tributaries to the pond within Lime Rock Preserve and unnamed stream, respectively. No VOCs or Pest/PCBs were detected in samples SD-1 through SD-5. One polycyclic aromatic hydrocarbon (PAH) was detected but at a concentration below the CRQLs and reference concentration (PAHs have not been attributed to waste disposal practices at either the IDS properties or Hedison Mfg. Co.). All non-detects for samples SD-1 through SD-5 were rejected because of high moisture content. Inorganic sample results are summarized in the Table 2 (no inorganics were detected significantly above background in sample SD-5).

Table 2
Summary of Analytical Results
Lot 158 Sediment Samples Analysis
North Central Industrial Park

Sample Location	Compound/ Element	Sample Concentration		Reference Concentration ¹		Comments	
SD-1 (AMC53) (MAHZ72)	INORGANICS						
	Iron	428,000	J	mg/kg	59,500	mg/kg	7.2 × Ref
SD-2 ² (AMC54) (MAHZ73)	INORGANICS						
	Iron	453,000	J	mg/kg	59,500	mg/kg	7.6 × Ref
	Selenium	12.3	J	mg/kg	11.6	U	mg/kg
SD-3 ² (AMC55) (MAHZ74)	INORGANICS						
	Iron	342,000	J	mg/kg	59,500	mg/kg	5.7 × Ref
SD-4 (AMC56) (MAHZ75)	INORGANICS						
	Cobalt	837	J	mg/kg	165	mg/kg	5.1 × Ref

- 1 = SD-06 and SD-11 are the reference samples.
2 = SD-2 and SD-3 are duplicate samples.
Ref = Reference value.
J = Quantitation is approximate due to limitations identified during the quality control review.
U = Indicates the sample was analyzed but not detected and reports the detection value.
mg/kg = Milligram per kilogram.
SDL = Sample Detection Limit.

Surface water samples SW-1 and SW-2 were collected near Wilbur Road from the stream that drains Lot 158. Sample SW-7 is the reference sample for SW-1 and SW-2 (Note: tetrachloroethene (5 J µg/L) and 1,2-dichloroethene (4 J µg/L) were detected in the reference sample [SW-7]). No VOCs, SVOCs, or Pest/PCBs were detected in the samples SW-1 and SW-2. The inorganic results are summarized in Table 3.

Table 3
Summary of Analytical Results of
Surface Water Samples Collect from Downstream of Lot 158
North Central Industrial Park

Sample Location	Compound/Element	Sample Concentration	Reference Concentration ¹	Comments
SW-01 (AMC67) (MAHZ86)	INORGANICS			
	Cobalt	1.6 J $\mu\text{g/L}$	1.0 U $\mu\text{g/L}$	1.6 \times SDL
SW-02 (AMC68) (MAHZ87)	INORGANICS			
	Cobalt	1.4 J $\mu\text{g/L}$	1.0 U $\mu\text{g/L}$	1.4 \times SDL

- 1 = Samples SW-7 is the reference.
Ref = Reference value.
J = Quantitation is approximate due to limitations identified during the quality control review.
U = Indicates the sample was analyzed but not detected and reports the detection value.
 $\mu\text{g/L}$ = Micrograms per liter.
SDL = Sample Detection Limit.

START collected two sediment samples, SD-13 and SD-10, along the unnamed stream that begins at the storm sewer system outfall, which is at the corner of Wellington Road and Carol Drive, and flows to the pond within Lime Rock Preserve. No VOCs were detected in either sample; one pesticide was detected in each sample (one did not meet the criteria for an observed release); two PAHs detected in SD-10 did not meet the criteria for observed release; 12 PAHs were detected in SD-13. Sediment samples SD-6 and SD-11 are the reference samples.

START collected sediment sample SD-14 from a tributary to the unnamed stream. This tributary begins at an apparent groundwater seep near Wellington Road, north of the storm sewer system outfall. This tributary is therefore expected to be heavily influenced by groundwater quality where the unnamed stream near the outfall is expected to be heavily influenced by surface water runoff from the industrial park. SD-14 was collected to investigate the contribution of groundwater contamination to any contamination along the unnamed stream or the pond within Lime Rock Preserve. Two VOCs and 14 SVOCs were detected in SD-14 (including dibenzofuran which was detected below the detection limit of the reference samples). 4,4'-DDD was detected below the reference value. SD-6 and SD-11 are the reference samples.

START collected sediment sample SD-12 from the drainage path that leads from the outfall pipe on the former Hedison Mfg. Co. property to the unnamed stream. No VOCs or Pest/PCBs were detected in SD-12, six PAHs were detected but did not meet the criteria for an observed release. Sediment samples SD-6 and SD-11 are reference samples.

START collected sediment samples SD-8 and SD-9 from the pond within Lime Rock Preserve near the discharge of the unnamed stream. Sediment samples SD-6, SD-7, and SD-11 are reference samples. No VOCs were detected in either sample. DDE was detected in SD-8 below the reference concentration. One and nine PAHs were detected in samples SD-8 and SD-9, respectively, all below the reference concentrations.

Table 4 summarizes the results of all START sediment samples collected along the Lime Rock Preserve drainage pathway.

Table 4
Summary of Analytical Results
Lime Rock Preserve Drainage Pathway Sediment Sample Analysis
North Central Industrial Park

Sample Location	Compound/Element	Sample Concentration	Reference Concentration ¹	Comments
UNNAMED STREAM				
SD-10 (AMC62) (MAHZ81)	PESTICIDES/PCBS			
	Dieldrin ²	16 J µg/kg	10 U µg/kg	1.6 × SQL
	INORGANICS			
	Potassium	1,360 mg/kg	300 J mg/kg	4.5 × Ref
SD-13 (AMC65) (MAHZ84)	SVOCs			
	Phenanthrene ³	4,400 µg/kg	130 J µg/kg	33.8 × Ref
	Fluoranthene ³	7,600 µg/kg	340 J µg/kg	22.4 × Ref
	Pyrene ³	5,300 µg/kg	250 J µg/kg	21.2 × Ref
	Benzo(a)anthracene ³	2,100 J µg/kg	990 U µg/kg	2.1 × SQL
	Chrysene ³	3,000 J µg/kg	990 U µg/kg	3 × SQL
	Benzo(b)fluoranthene ³	4,000 J µg/kg	110 J µg/kg	36.4 × Ref
	Benzo(k)fluoranthene ³	1,500 J µg/kg	530 U µg/kg	2.8 × SQL
	Benzo(a)pyrene ³	2,200 J µg/kg	530 U µg/kg	4.2 × SQL
	Indeno(1,2,3-cd)pyrene ³	1,000 J µg/kg	990 U µg/kg	1 × SQL
	Benzo(g,h,i)perylene ³	1,100 J µg/kg	990 U µg/kg	1.1 × SQL
	INORGANICS			
	Copper	63 mg/kg	16.7 mg/kg	3.8 × Ref
	Silver	57.3 mg/kg	4.0 mg/kg	14.3 × Ref

Table 4
Summary of Analytical Results
Lime Rock Preserve Drainage Pathway Sediment Sample Analysis
North Central Industrial Park
(Continued)

Sample Location	Compound/Element	Sample Concentration	Reference Concentration ¹	Comments
TRIBUTARY TO THE UNNAMED STREAM				
SD-14 (AMC66) (MAHZ85)	VOCs			
	1,2-Dichloroethene	70 µg/kg	19 U µg/kg	3.7 × SQL
	Tetrachloroethene	300 µg/kg	19 U µg/kg	15.8 × SQL
	Trichloroethene	76 J µg/kg	19 U µg/kg	4 × SQL
	SVOCs			
	Phenanthrene ³	2,100 µg/kg	530 U µg/kg	4 × SQL
	Fluoranthene ³	2,300 µg/kg	340 J µg/kg	6.8 × Ref
	Pyrene ³	3,300 µg/kg	250 J µg/kg	13.2 × Ref
	Benzo(a)anthracene ³	2,100 µg/kg	990 U µg/kg	2.1 × SQL
	Chrysene ³	2,300 µg/kg	990 U µg/kg	2.3 × SQL
	Benzo(b)fluoranthene ³	2,100 µg/kg	110 J µg/kg	19.1 × Ref
	Benzo(k)fluoranthene ³	800 µg/kg	530 U µg/kg	1.5 × SQL
	Benzo(a)pyrene ³	1,500 µg/kg	530 U µg/kg	2.8 × SQL
	Indeno(1,2,3-cd)pyrene ³	1,300 µg/kg	990 U µg/kg	1.3 × SQL
	Benzo(g,h,i)perylene ³	1,400 µg/kg	990 U µg/kg	1.4 × SQL
	INORGANICS			
	Potassium	954 mg/kg	453 U mg/kg	2.1 × SDL
HEDISON MFG. CO. PROPERTY DRAINAGE DITCH				
SD-12 (AMC64) (MAHZ83)	INORGANICS			
	Lead	251 mg/kg	48.5 J mg/kg	5.2 × Ref
	Potassium	1,120 mg/kg	453 U mg/kg	2.5 × SDL

Table 4
Summary of Analytical Results
Lime Rock Preserve Drainage Pathway Sediment Sample Analysis
North Central Industrial Park
(Concluded)

Sample Location	Compound/Element	Sample Concentration	Reference Concentration ¹	Comments
POND WITHIN LIME ROCK PRESERVE				
SD-9 (AMC61) (MAHZ80)	INORGANICS			
	Potassium	3,660 mg/kg	453 J mg/kg	8.1 × Ref

- 1 = Sample SD-06 and SD-11 are the references.
2 = This pesticide met the criteria for observed release, but is likely attributable to routine application and not to disposal practices at any facility within the North Central Industrial Park.
3 = PAHs were detected in 16 of 18 soil and sediment samples collected by START including background samples. However, the concentrations of the PAHs detected in SD-13 and SD-14 were significantly above background levels.
Ref = Reference value.
J = Quantitation is approximate due to limitations identified during the quality control review.
U = Indicates the sample was analyzed but not detected and reports the detection value.
μg/kg = Micrograms per kilogram.
mg/kg = Milligrams per kilogram.
SVOCs = Semivolatile organic compounds.
SQL = Sample Quantitation Limit
SDL = Sample Detection Limit.

START collected drinking water samples from the private wells at 36 Wilbur Road (GW-1 and GW-2), 37 Wilbur Road (GW-3), and 42 Wilbur Road (GW-4). Samples GW-96-13 and GW-96-14 were collected by TRCC in 1993 from overburden or bedrock monitoring wells MW-4 (completed in the overburden) and TW-4 (completed in bedrock), respectively, and are used by START as reference samples. Both monitoring wells are on the Speidel Co./Gorham Co. property. No VOCs, SVOCs, or Pest/PCBs were detected any of the drinking water samples. The inorganic results are summarized in Table 5.

Table 5
Summary of Analytical Results
Drinking Water Sample Analysis
North Central Industrial Park

Sample Location	Compound/ Element	Sample Concentration		Reference Concentration ¹		Comments
GW-1 (DAF060) (AMC74) (MAHZ93)	INORGANICS					
	Calcium	49,200	µg/L	5,310	µg/L	9.3 × Ref
	Potassium	4,910	µg/L	2,510	U µg/L	2.0 × SDL
	Sodium	34,100	µg/L	3,070	J µg/L	11.1 × Ref
GW-2 (DAF061) (AMC75) (MAHZ94)	INORGANICS					
	Calcium	46,900	µg/L	5,310	µg/L	8.8 × Ref
	Potassium	4,670	µg/L	2,510	U µg/L	1.9 × SDL
	Sodium	32,300	µg/L	3,070	J µg/L	10.5 × Ref
GW-3 (DAF062) (AMC76) (MAHZ95)	INORGANICS					
	Calcium	50,900	µg/L	5,310	µg/L	9.6 × Ref
	Potassium	4,200	µg/L	2,510	U µg/L	1.7 × SDL
	Sodium	21,500	µg/L	3,070	J µg/L	7 × Ref
GW-4 (DAF063) (AMC77) (MAHZ96)	INORGANICS					
	Calcium	27,200	µg/L	5,310	µg/L	5.1 × Ref
	Copper	68.2	µg/L	18.1	J µg/L	3.8 × Ref
	Potassium	2,770	µg/L	2,510	U µg/L	1.1 × SDL
	Sodium	17,800	µg/L	3,070	J µg/L	5.8 × Ref
	Zinc	816	J µg/L	85.5	µg/L	9.5 × Ref

1 = Samples GW-96-13 and GW-96-14 were collected by TRCC/ARCS in 1993 from overburden or bedrock monitoring wells MW-4 (completed in the overburden) and TW-4 (completed in bedrock), respectively, and are used by START as reference samples.

Ref = Reference value.

J = Quantitation is approximate due to limitations identified during the quality control review.

U = Indicates the sample was analyzed but not detected and reports the detection value.

µg/L = Micrograms per liter.

SDL = Sample Detection Limit.

Soil sample SS-1 was collected from the east side of the former trolley path near where the unnamed stream enters the pond within Lime Rock Preserve. START observed a material that appeared to be coal slag on the embankment supporting the former trolley path. Sample SS-1 was collected to investigate whether any substances detected in the pond may be attributable to runoff from the embankment rather than the North Central Industrial Park. No VOCs or Pest/PCBs were detected in SS-1. Naphthalene, 2-methylnaphthalene, and seven PAHs were detected in sample SS-1 below the CRQLs and did not meet the criteria for an observed release. Soil samples SS-2, SS-3, and SS-4 are reference samples.

ATTACHMENT A
START ANALYTICAL DATA